

# ENVIRONMENTAL SCIENCE

## ASSOCIATE IN SCIENCE FOR TRANSFER

Environmental Science integrates topics from biological sciences, physical sciences, geosciences, and public policy to understand the working of the earth's ecosystems and the impact of humans within those systems. Environmental Scientists apply scientific knowledge to understand complex environmental problems that impact the quality of life and develop solutions to protect, preserve, and sustain the natural environment. The Associate in Science in Environmental Science for Transfer degree (AS-T in Environmental Science) prepares students to transfer into the CSU system to complete a bachelor's degree in Environmental Science, Environmental Science and Resource Management, Environmental Studies, or a major deemed similar by a CSU campus. For transfer to the UC system, or other institutions outside the UC and CSU systems students may want to consider the AS in Coastal Environmental Studies instead. *For more information, contact: Jim Danza (805) 678-5209 [jdanza@vcccd.edu](mailto:jdanza@vcccd.edu)*

Select either Option 1 or Option 2

### OPTION 1 (15 units)

**UNITS**

BIOL R120	Principles of Biology I <i>Prerequisites: CHEM R120 and MATH R005 or MATH R015 or placement based on multiple measurements assessments</i> <i>Advisories: ENGL R097 or ENGL R100 or ENGL R101</i>	4.0
BIOL R120L	Principles of Biology I Lab: Intro to Cellular and Molecular Biology <i>Prerequisites: BIOL R120 or concurrent enrollment</i>	1.0
BIOL R122	Principles of Biology II <i>Prerequisites: BIOL R120 and BIOL R120L and ENGL R100 or ENGL R101 or ENGL R101H and MATH R005 or MATH R014 or MATH R014B or MATH R015 or placement as determined by the college's multiple measures assessment process</i>	4.0
BIOL R122L	Principles of Biology II Lab <i>Prerequisites: BIOL R120 and BIOL R120L and BIOL R122 or concurrent enrollment</i>	1.0
CHEM R120	General Chemistry I <i>Prerequisites: CHEM R110 and MATH R015 or MATH R005 or MATH R014 or MATH R033 or placement as determined by the college's multiple measures assessment process</i>	5.0

### OPTION 2 (15 units)

BIOL R120	Principles of Biology I <i>Prerequisites: CHEM R120 and MATH R005 or MATH R015 or placement based on multiple measurements assessments</i> <i>Advisories: ENGL R097 or ENGL R100 or ENGL R101</i>	4.0
BIOL R120L	Principles of Biology I Lab: Intro to Cellular and Molecular Biology <i>Prerequisites: BIOL R120 or concurrent enrollment</i>	1.0
CHEM R120	General Chemistry I <i>Prerequisites: CHEM R110 and MATH R015 or MATH R005 or MATH R014 or MATH R033 or placement as determined by the college's multiple measures assessment process</i>	5.0
CHEM R122	General Chemistry II <i>Prerequisites: CHEM R120</i>	5.0

### LIST A

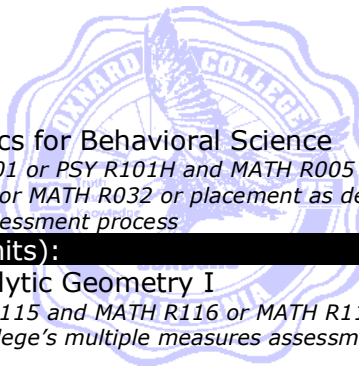
Select Geology and the appropriate statistics and calculus course for the intended transfer institution (14-18 units)

GEOL R101	Physical Geology	3.0
GEOL R101L	Physical Geology Lab <i>Prerequisites: GEOL R101 or concurrent enrollment</i>	1.0

Choose one Statistics course and one Calculus course from the following (7-9 units):

MATH R105/H	Introductory Statistics/Honors <i>Prerequisites: MATH R005 or MATH R014 or MATH R014B or MATH R015 or MATH R032 or MATH R033 or placement as determined by the college's multiple measures assessment process</i>	4.0
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★ **General Education: A.S./A.A. degrees require completion of the Oxnard College General Education pattern**



PSY R103	Beginning Statistics for Behavioral Science	3.0
	<i>Prerequisites: PSY R101 or PSY R101H and MATH R005 or MATH R014 or MATH R014B or MATH R015 or MATH R032 or placement as determined by the college's multiple measures assessment process</i>	

**Choose one Calculus course (4-5 units):**

MATH R120	Calculus with Analytic Geometry I	5.0
	<i>Prerequisites: MATH R115 and MATH R116 or MATH R117 or placement as determined by the college's multiple measures assessment process</i>	
MATH R106	Business Calculus	4.0
	<i>Prerequisites: MATH R014 or MATH R014B or MATH R015 or MATH R033 or placement as determined by the college's multiple measures assessment process</i>	

**LIST B**

**Select ECON and the appropriate physics series for the Intended transfer institution (13 units)**

ECON R102	Introduction to the Principles of Microeconomics	3.0
	<i>Prerequisites: MATH R002 or MATH R005 or MATH R011 or MATH R015 or Placement as determined by the college's multiple measures process</i>	

**-AND-**

**Physics Series 1 ( 10 units)**

PHYS R131	Physics for Scientists and Engineers 1	5.0
	<i>Prerequisites: MATH R120</i>	
PHYS R132	Physics for Scientists and Engineers 2	5.0
	<i>Prerequisites: MATH R121 and PHYS R131</i>	
<b>-OR-</b>		
PHYS R101	College Physics 1	4.0
	<i>Prerequisites: MATH R116</i>	
PHYS R101L	College Physics 1 Laboratory	1.0
	<i>Prerequisites: PHYS R101 or concurrent enrollment</i>	
PHYS R102	College Physics 2	4.0
	<i>Prerequisites: PHYS R101</i>	
PHYS R102L	College Physics 2 Laboratory	1.0
	<i>Prerequisites: PHYS R102 or concurrent enrollment</i>	

<b>Total Required Major Units</b>	<b>39-41</b>
CSU General Education <i>or</i> IGETC Pattern	31
Double-Counted Units	-(13)
Free Electives Required (ESRM 100 Recommended)	1-3
<b>Total Units required for the AS-T Degree</b>	<b>60</b>